



State of Utah

DEPARTMENT OF NATURAL RESOURCES

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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0410002
TaskID: 4601
Mine Name: SUFCO MINE
Title: UNDERMINING OF SHELTERS

Environmental Resource Information

Historic and Archeological Resource Information

Analysis:

The Forest Service with the concurrence of The State Historic Preservation Office (SHPO) noted in their determination of significance and effect that mining under the shelters would have an adverse effect on the sites. The applicant has not revised the application to include the extent of mining when determining the angle of draw. The Division's review of the drawing to be included in Appendix 4-2 has noted that the angle of draw when properly located will include shelter # 4SV3550 as such a mitigation plan for the shelter will be required by The Division, The Forest Service and The State Historic Preservation Office (SHPO).

Deficiencies Details:

The Forest Service with the concurrence of The State Historic Preservation Office (SHPO) noted in their determination of significance and effect that mining under the shelters would have an adverse effect on the sites.

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Operation Plan

Subsidence Control Plan Subsidence

Analysis:

In response to the Division's review and concerns with the angle-of-draw for longwall mining, the operator provided a surface subsidence analysis and an illustration showing the definition of angle-of-draw as it relates to "collapsed longwall workings".

The application states that the analysis justifies the location of the projected subsidence on the drawing in the appendix and supports that both shelters should be outside the subsidence impact area.

Deficiencies Details:

R645-301.525.541. The Division does not disagree with the surface subsidence analysis provided. Based on the calculated safety factor and supporting analysis, the Division can agree that the expected surface effects at the sites will be minimal or none. However minimal the expected effects are, there is still a possibility that the sites fall within the influence area based on the regulatory definition of angle of draw. R645-301.525.541 clearly defines the angle of draw as being determined by projecting to the surface from the outermost boundary of any mine workings. All entries, adits, head and tail gate roads, etc are considered mine workings. Therefore, the angle of draw must be drawn based on the definitions in Utah State regulations. The "angle of draw" line on the map must be adjusted and plotted according to the regulatory definition. The subsidence analysis provides justification that the effects will most likely be minimal or none, but it does not allow the operator to change the definition of angle of draw as it relates to collapsed longwall workings or the outermost boundary of any underground working extents.

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